

Datasheet: MCA2484EL

Description:	MOUSE ANTI HUMAN CD282:Low Endotoxin
Specificity:	CD282
Other names:	TLR2
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	11G7
Isotype:	IgG1
Quantity:	0.5 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/100 - 1/200
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Functional Assays	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present.
Carrier Free	Yes
Endotoxin Level	<0.01 Eu/ug
Approx. Protein Concentrations	IgG concentration 1.0mg/ml

**External Database
Links**

UniProt:

[O60603](#) [Related reagents](#)

Entrez Gene:

[7097](#) TLR2 [Related reagents](#)

Synonyms

TIL4

Specificity

Mouse anti Human CD282 antibody, clone 11G7 recognizes the human Toll-like receptor 2 (TLR2), a ~90 kDa type 1 transmembrane protein that is primarily expressed by peripheral blood monocytes. TLR2, also known as CD282, is reported to respond to a diverse range of bacterial cell wall components, mediating the innate immune response in co-operation with MD-2.

Mouse anti Human CD282 antibody, clone 11G7 has been reported to block IL-6 cytokine production in response to ara-lipoarabinomannan (araLAM) and tripalmitoyl cysteinyl lipopeptide (Pam3CSK4) ([Sandor et al. 2003](#)). Clone 11G7 does not inhibit the production of cytokines induced by zymosan stimulation.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1x10⁶ cells in 100ul.

References

1. Sandor, F. *et al.* (2003) Importance of extra- and intracellular domains of TLR1 and TLR2 in NFkappa B signaling. [J Cell Biol. 162 \(6\): 1099-110.](#)
2. Zhou, S. *et al.* (2010) Discovery of a novel TLR2 signaling inhibitor with anti-viral activity. [Antiviral Res. 87 \(3\): 295-306.](#)
3. Royer, P.J. *et al.* (2010) The mannose receptor mediates the uptake of diverse native allergens by dendritic cells and determines allergen-induced T cell polarization through modulation of IDO activity. [J Immunol. 185 \(3\): 1522-31.](#)
4. Chen, E.S. *et al.* (2010) Serum amyloid A regulates granulomatous inflammation in sarcoidosis through Toll-like receptor-2. [Am J Respir Crit Care Med. 181 \(4\): 360-73.](#)
5. Nguyen, D.N. *et al.* (2016) Oral antibiotics increase blood neutrophil maturation and reduce bacteremia and necrotizing enterocolitis in the immediate postnatal period of preterm pigs. [Innate Immun. 22 \(1\): 51-62.](#)
6. Royer, P.J. *et al.* (2010) The mannose receptor mediates the uptake of diverse native allergens by dendritic cells and determines allergen-induced T cell polarization through modulation of IDO activity. [J Immunol. 185 \(3\): 1522-31.](#)

Storage

Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR70...)	FITC
Rabbit Anti Mouse IgG (STAR13...)	HRP
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@549 , DyLight@649 , DyLight@680 , DyLight@800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA928EL\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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Printed on 28 Jul 2018